IN THE CLAIMS

The following listing of the claims is provided in accordance with 37 C.F.R. 1.121:

1. (original) A method of producing a reduced data set event log comprising the acts of:

(a) monitoring an event log comprising examination and series data from a digital imaging device; and

(b) automatically copying portions of the examination and series data from the event log to produce the reduced data set event log.

2. (original) The method of producing a reduced data set event log, as set forth in claim 1, wherein the event log is produced from a computed tomography (CT) device.

3. (original) The method of producing a reduced data set event log, as set forth in claim 1, wherein the event log comprises a multi-threaded event log.

4. (original) The method of producing a reduced data set event log, as set forth in claim 1, wherein act (b) comprises:

(a) providing a feature extracter module;

(b) analyzing the event log using the feature extracter module; and

(c) storing portions of the examination and series data in the reduced data set event log.

5. (original) The method of producing a reduced data set event log, as set forth in claim 4, wherein the feature extracter module comprises a software algorithm.

6. (original) The method of producing a reduced data set event log, as set forth in claim 4, wherein the feature extracter module comprises a Programmable Read Only Memory (PROM) device.

7. (original) The method of producing a reduced data set event log, as set forth in claim 4, wherein the feature extracter module comprises a software routine.

8. (original) The method of producing a reduced data set event log, as set forth in claim 4, wherein the feature extracter module comprises a state machine.

9. (previously presented) A method of interpreting an event log comprising the acts of:

(a) using a state machine to describe predetermined conditions;

(b) switching states of the state machine in response to the detection of the predetermined conditions; and

(c) producing a reduced data set event log based on the detection of the predetermined conditions.

10. (original) The method of interpreting an event log, as set forth in claim 9, comprising the acts of:

manually inspecting exemplary event logs comprising examination records and series records;

identifying a plurality of text-strings corresponding to the examination records and series records;

assigning a condition to each of the plurality of text-strings; and

using each of the conditions to define a state machine.

11.–12. (canceled).

13. (previously presented) A system for interpreting an event log comprising:

an input device configured to produce an event log, the event log comprising imaging data correlative to an image scan; and

a feature extracter module configured to receive the event log from the input device and further configured to produce a reduced data set event log based on the detection of the predetermined conditions.

14. (original) The system for interpreting an event log, as set forth in claim 13, wherein the feature extracter module comprises a software algorithm.

15. (original) The system for interpreting an event log, as set forth in claim 13, wherein the feature extracter module comprises a state machine.

16. (original) The system for interpreting an event log, as set forth in claim 13, wherein the event log comprises a multi-threaded event log.

17. (original) The system for interpreting an event log, as set forth in claim 13, wherein the input device comprises at least one of a computed tomography (CT) device, a magnetic resonance imaging (MRI) device, an x-ray system, and an ultrasound system.

18. (previously presented) A feature extractor comprising means for receiving an event log from an input device and means for producing a reduced data set event log based on the detection of predetermined conditions.

19.-23. (canceled).

24. (original) A computer-readable medium storing computer instructions for:

monitoring an event log comprising examination and series data from a digital imaging device; and

automatically copying portions of the examination and series data from the event log to produce a reduced data set event log.

25. (original) The computer-readable medium, as set forth in claim 24, wherein the computer instructions for automatically copying comprises computer examinations for:

analyzing the event log, and

storing portions of the examination and series data in the reduced data set event log.

26. (canceled).